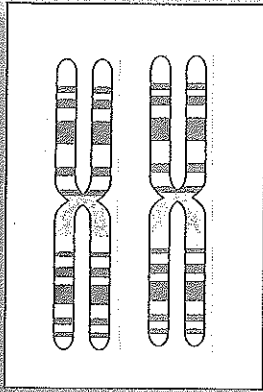


# Human Karyotype Exercise

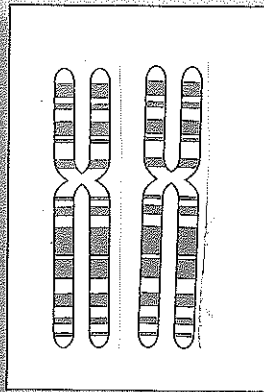
Determine the sex and chromosome condition of the individual whose chromosomes are displayed on the facing page. The karyotypes presented on the previous pages, and the hints

on how to recognize chromosome pairs, can be used to help you complete this activity.

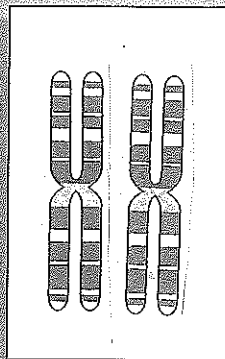
- Cut out the chromosomes on the facing page and arrange them on this record sheet in their homologous pairs.
- Determine the sex of this individual: male or female (circle one)
  - State whether the individual's chromosome arrangement is: normal or abnormal (circle one)
  - If the arrangement is abnormal, state in what way: Down Syndrome - extra chromosome 18 and 21



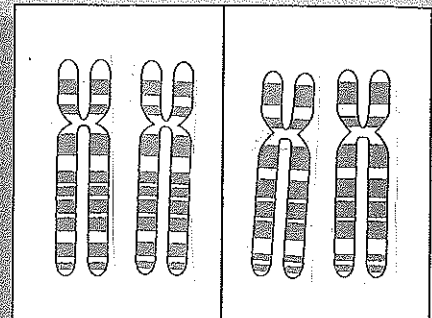
1



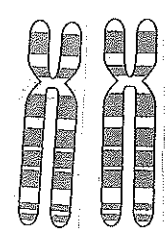
2



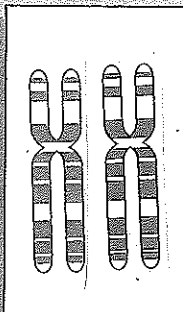
3



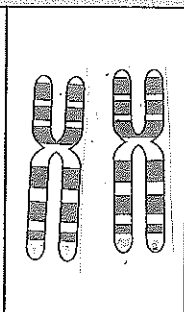
4



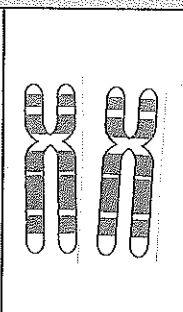
5



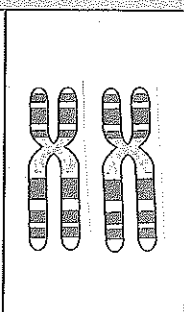
6



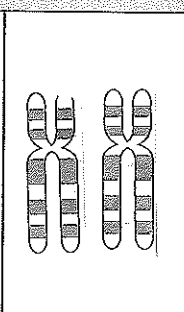
7



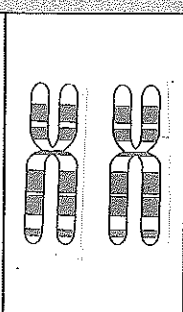
8



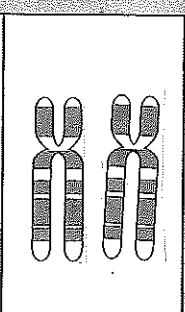
9



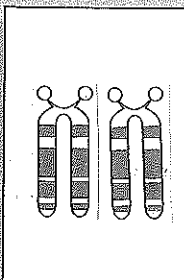
10



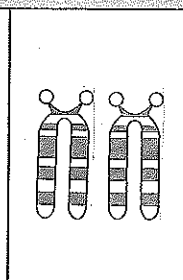
11



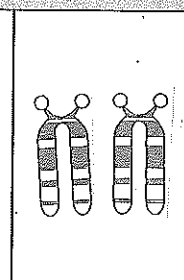
12



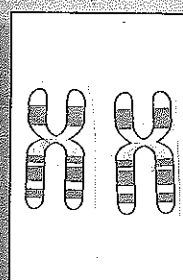
13



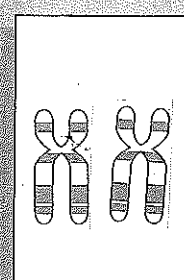
14



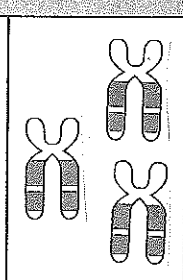
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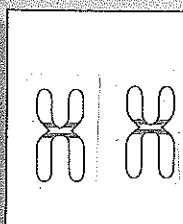
16



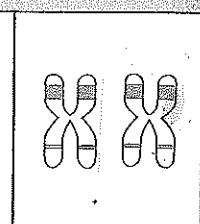
17



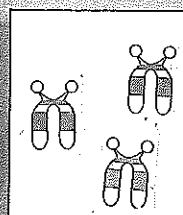
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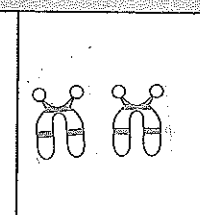
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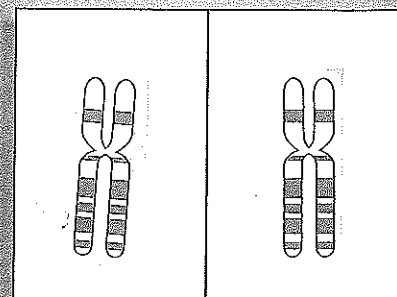
20



21



22



Sex chromosomes